Figure 1

Amino acid sequence of GCLM (NP_002052.1; SEQ ID No: 10)

```
1    MGTDSRAAKA LLARARTLHL QTGNLLNWGR LRKKCPSTHS EELHDCIQKT LNEWSSQINP
61   DLVREFPDVL ECTVSHAVEK INPDEREEMK VSAKLFIVES NSSSSTRSAV DMACSVLGVA
121  QLDSVIIASP PIEDGVNLSL EHLQPYWEEL ENLVQSKKIV AIGTSDLDKT QLEQLYQWAQ
181  VKPNSNQVNL ASCCVMPPDL TAFAKQFDIQ LLTHNDPKEL LSEASFQEAL QESIPDIQAH
241  EWVPLWLLRY SVIVKSRGII KSKGYILQAK RRGS
```

Amino acid sequence of GSS (NP_000169.1; SEQ ID No: 11)

```
1    MATNWGSLLQ DKQQLEELAR QAVDRALAEG VLLRTSQEPT SSEVVSYAPF TLFPSLVPSA
61   LLEQAYAVQM DFNLLVDAVS QNAAFLEQTL SSTIKQDDFT ARLFDIHKQV LKEGIAQTVF
121  LGLNRSDYMF QRSADGSPAL KQIEINTISA SFGGLASRTP AVHRHVLSVL SKTKEAGKIL
181  SNNPSKGLAL GIAKAWELYG SPNALVLLIA QEKERNIFDQ RAIENELLAR NIHVIRRTFE
241  DISEKGSLDQ DRRLFVDGQE IAVVYFRDGY MPRQYSLQNW EARLLLERSH AAKCPDIATQ
301  LAGTKKVQQE LSRPGMLEML LPGQPEAVAR LRATFAGLYS LDVGEEGDQA IAEALAAPSR
361  FVLKPQREGG GNNLYGEEMV QALKQLKDSE ERASYILMEK IEPEPFENCL LRPGSPARVV
421  QCISELGIFG VYVRQEKTLV MNKHVGHLLR TKAIEHADGG VAAGVAVLDN PYPV
```

Amino acid sequence of GPX1 (NP_000572.2, SEQ ID No: 12)

```
1    MCAARLAAAA AQSVYAFSAR PLAGGEPVSL GSLRGKVLLI ENVASLXGTT VRDYTQMNEL
61   QRRLGPRGLV VLGFPCNQFG HQENAKNEEI LNSLKYVRPG GGFEPNFMLF EKCEVNGAGA
121  HPLFAFLREA LPAPSDDATA LMTDPKLITW SPVCRNDVAW NFEKFLVGPD GVPLRRYSRR
181  FQTIDIEPDI EALLSQGPSC A
```

Amino acid sequence of system Xc^- (NP_055146, xCT; SEQ ID No: 13)

```
1    MVRKPVVSTI SKGGYLQGNV NGRLPSLGNK EPPGQEKVQL KRKVTLLRGV SIIIGTIIGA
61   GIFISPKGVL QNTGSVGMSL TIWTVCGVLS LFGALSYAEL GTTIKKSGGH YTYILEVFGP
121  LPAFVRVWVE LLIIRPAATA VISLAFGRYI LEPFFIQCEI PELAIKLITA VGITVVMVLN
181  SMSVSWSARI QIFLTFCKLT AILIIIVPGV MQLIKGQTQN FKDAFSGRDS SITRLPLAFY
241  YGMYAYAGWF YLNFVTEEVE NPEKTIPLAI CISMAIVTIG YVLTNVAYFT TINAEELLLS
301  NAVAVTFSER LLGNFSLAVP IFVALSCFGS MNGGVFAVSR LFYVASREGH LPEILSMIHV
361  RKHTPLPAVI VLHPLTMIML FSGDLDSLLN FLSFARWLFI GLAVAGLIYL RYKCPDMHRP
421  FKVPLFIPAL FSFTCLFMVA LSLYSDPFST GIGFVITLTG VPAYYLFIIW DKKPRWFRIM
481  SEKITRTLQI ILEVVPEEDK L
```

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Figure 2

Nucleic acid sequence of GCLM (SEQ ID No: 14)

```
1    ggcacgaggc tgcggccgca gtagccggag ccggagccgc agccaccggt gccttccttt
61   cccgccgccg cccagccgcc gtccggcctc cctcgggccc gagcgcagac caggctccag
121  ccgcgcggcg ccggcagcct cgcgctccct ctcgggtctc tctcgggcct cgggcaccgc
181  gtcctgtggg cggccgcctg cctgcccgcc cgcccgcagc cccttgcctg ccggcccctg
241  ggcggcccgt gccatgggca ccgacagccg cgcggccaag gcgctcctgg cgcgggcccg
301  caccctgcac ctgcagacgg ggaacctgct gaactggggc cgcctgcgga agaagtgccc
361  gtccacgcac agcgaggagc ttcatgattg tatccaaaaa accttgaatg aatggagttc
421  ccaaatcaac ccagatttgg tcagggagtt tccagatgtc ttggaatgca ctgtatctca
481  tgcagtagaa aagataaatc ctgatgaaag agaagaaatg aaagtttctg caaaactgtt
541  cattgtagaa tcaaactctt catcatcaac tagaagtgca gttgacatgg cctgttcagt
601  ccttggagtt gcacagctgg attctgtgat cattgcttca cctcctattg aagatggagt
661  taatctttcc ttggagcatt tacagcctta ctgggaggaa ttagaaaact tagttcagag
721  caaaaagatt gttgccatag gtacctctga tctagacaaa acacagttgg aacagctgta
781  tcagtgggca caggtaaaac caaatagtaa ccaagttaat cttgcctcct gctgtgtgat
841  gccaccagat ttgactgcat ttgctaaaca atttgacata cagctgttga ctcacaatga
901  tccaaaagaa ctgctttctg aagcaagttt ccaagaagct cttcaggaaa gcattcctga
961  cattcaagcg cacgagtggg tgccgctgtg gctactgcgg tattcggtca ttgtgaaaag
1021 tagaggaatt atcaaatcaa aaggctacat tttacaagct aaaagaaggg gttcttaact
1081 gacttaggag cataacttac ctgtaatttc cttcaatatg agagaaaatt gagatgtgta
1141 aaatctagtt actgcctgta aatggtgtca ttgaggcaga tattctttcg tcatatttga
1201 cagtatgttg tctgtcaagt tttaaatact tatcttgcct ccatatcaat ccattctcat
1261 gaacctctgt attgctttcc ttaaactatt gttttctaat tgaaattgtc tataaagaaa
1321 atacttgcaa tatatttttc ctttattttt atgactaata taaatcaaga aaatttgttg
1381 ttagatatat tttggcctag gtatcagggt aatgtatata catatttttt atttccaaaa
1441 aaaattcatt aattgcttct taactcttat tataaccaag caatttaatt acaattgtta
1501 aaactgaaat actggaagaa gatatttttc ctgtcattga tgagatatat cagagtaact
1561 ggagtagctg ggatttacta gtagtgtaaa taaaattcac tcttcaatac
```

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Figure 3

Nucleic acid sequence of GSS (SEQ ID No: 15)

```
1    gaggccccgc cccctgagcc tgggtagcgg cgcgagggcc gggagaaccg ttcgcggagg
61   aaaggcgaac tagtgttggg atggccacca actgggggag cctcttgcag gataaacagc
121  agctagagga gctggcacgg caggccgtgg accgggccct ggctgaggga gtattgctga
181  ggacctcaca ggagcccact tcctcggagg tggtgagcta tgccccattc acgctcttcc
241  cctcactggt ccccagtgcc ctgctggagc aagcctatgc tgtgcagatg gacttcaacc
301  tgctagtgga tgctgtcagc cagaacgctg ccttcctgga gcaaactctt tccagcacca
361  tcaaacagga tgactttacc gctcgtctct ttgacatcca caagcaagtc ctaaaagagg
421  gcattgccca gactgtgttc ctgggcctga atcgctcaga ctacatgttc cagcgcagcg
481  cagatggctc cccagccctg aaacagatcg aaatcaacac catctctgcc agctttgggg
541  gcctggcctc ccggacccca gctgtgcacc gacatgttct cagtgtcctg agtaagacca
601  aagaagctgg caagatcctc tctaataatc ccagcaaggg actggccctg ggaattgcca
661  aagcctggga gctctacggc tcacccaatg ctctggtgct actgattgct caagagaagg
721  aaagaaacat atttgaccag cgtgccatag agaatgagct actggccagg aacatccatg
781  tgatccgacg aacatttgaa gatatctctg aaaaggggtc tctggaccaa gaccgaaggc
841  tgtttgtgga tggccaggaa attgctgtgg tttacttccg ggatggctac atgcctcgtc
901  agtacagtct acagaattgg gaagcacgtc tactgctgga gaggtcacat gctgccaagt
961  gcccagacat tgccacccag ctggctggga ctaagaaggt gcagcaggag ctaagcaggc
1021 cgggcatgct ggagatgttg ctccctggcc agcctgaggc tgtggcccgc ctccgcgcca
1081 cctttgctgg cctctactca ctggatgtgg gtgaagaagg ggaccaggcc atcgccgagg
1141 cccttgctgc ccctagccgg tttgtgctaa agccccagag agagggtgga ggtaacaacc
1201 tatatgggga ggaaatggta caggccctga aacagctgaa ggacagtgag gagagggcct
1261 cctacatcct catggagaag atcgaacctg agccttttga gaattgcctg ctacggcctg
1321 gcagccctgc ccgagtggtc cagtgcattt cagagctggg catctttggg gtctatgtca
1381 ggcaggaaaa gacactcgtg atgaacaagc acgtggggca tctacttcga accaaagcca
1441 tcgagcatgc agatggtggt gtggcagcgg gagtggcagt cctggacaac ccataccctg
1501 tgtgagggca caaccaggcc acgggacctt ctatcctctg tatttgtcat tcctctccta
1561 gccctcctga ggggtatcct cctaaagacc tccaaagttt ttatggaagg gtaaatactg
1621 gtaccttccc ccagctttcc atctgaggac cagaaaagtt gtgtctccct tagatgagat
1681 ctagacgccc ccaaatcctt gagatgtggg tatagctcag ggtaagctgc tctgaggtaa
1741 aggtccatga accctgcccc actcctgtca gcccctcatc agccttttca gcaggttcca
1801 gtgcctgact tgggatagga ctgagtggta ggaggagggg gagtggaggg gcatagcctt
1861 tccctaattc tgccttaaat aaaactgcat tgctgattca aaaaaaaaaa aaaaaaaa
```

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Figure 4

Nucleic acid sequence of GPX1 (SEQ ID No: 16)

```
1    cgacccctcg aggggcccag ccttggaagg gtaactggac cgctgccgcc tggttgcctg
61   ggccagacca gacatgcctg ctgctccttc cggcttagga ggagcacgcg tcccgctcgg
121  gcgcactctc cagccttttc ctggctgagg aggggccgag cctccggtag ggcgggggcc
181  ggatgaggcg ggacctcagg cccggaaaac tgcctgtgcc acgtgacccg ccgccggcca
241  gttaaaagga ggcgcctgct ggcctcccct tacagtgctt gttcggggcg ctccgctggc
301  ttcttggaca attgcgccat gtgtgctgct cggctagcgg cggcggcggc ccagtcggtg
361  tatgccttct cggcgcgccc gttggccggc ggggagcctg tgagcctggg ctccctgcgg
421  ggcaaggtac tacttatcga gaatgtggcg tccctctgag gcaccacggt ccgggactac
481  acccagatga acgagctgca gcggcgcctc ggaccccggg gcctggtggt gctcggcttc
541  ccgtgcaacc agtttgggca tcaggagaac gccaagaacg aagagattct gaattccctc
601  aagtacgtcc ggcctggtgg tgggttcgag cccaacttca tgctcttcga gaagtgcgag
661  gtgaacggtg cgggggcgca ccctctcttc gccttcctgc gggaggccct gccagctccc
721  agcgacgacg ccaccgcgct tatgaccgac cccaagctca tcacctggtc tccggtgtgt
781  cgcaacgatg ttgcctggaa ctttgagaag ttcctggtgg gccctgacgg tgtgccccta
841  cgcaggtaca gccgccgctt ccagaccatt gacatcgagc ctgacatcga agccctgctg
901  tctcaagggc ccagctgtgc ctagggcgcc cctcctaccc cggctgcttg gcagttgcag
961  tgctgctgtc tcgggggggt tttcatctat gagggtgttt cctctaaacc tacgagggag
1021 gaacaccttg atcttacaga aaataccacc tcgagatggg tgctggtcct gttgatccca
1081 gtctctgcca gaccaaggcg agtttcccca ctaataaagt gccgggtgtc agca
```

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Figure 5 Nucleic acid sequence of system Xc^- (xCT; SEQ ID No: 17)

```
1    atggtcagaa agcctgttgt gtccaccatc tccaaaggag gttacctgca gggaaatgtt
61   aacgggaggc tgccttccct gggcaacaag gagccacctg ggcaggagaa agtgcagctg
121  aagaggaaag tcactttact gaggggagtc tccattatca ttggcaccat cattggagca
181  ggaatcttca tctctcctaa gggcgtgctc cagaacacgg gcagcgtggg catgtctctg
241  accatctgga cggtgtgtgg ggtcctgtca ctatttggag ctttgtctta tgctgaattg
301  ggaacaacta taaagaaatc tggaggtcat tacacatata ttttggaagt ctttggtcca
361  ttaccagctt ttgtacgagt ctgggtggaa ctcctcataa tacgccctgc agctactgct
421  gtgatatccc tggcatttgg acgctacatt ctggaaccat tttttattca atgtgaaatc
481  cctgaacttg cgatcaagct cattacagct gtgggcataa ctgtagtgat ggtcctaaat
541  agcatgagtg tcagctggag cgcccggatc cagattttct taacctttg caagctcaca
601  gcaattctga taattatagt ccctggagtt atgcagctaa ttaaaggtca aacgcagaac
661  tttaaagacg cgttttcagg aagagattca agtattacgc ggttgccact ggctttttat
721  tatggaatgt atgcatatgc tggctggttt tacctcaact ttgttactga agaagtagaa
781  aaccctgaaa aaaccattcc ccttgcaata tgtatatcca tggccattgt caccattggc
841  tatgtgctga caaatgtggc ctactttacg accattaatg ctgaggagct gctgctttca
901  aatgcagtgg cagtgacctt ttctgagcgg ctactgggaa atttctcatt agcagttccg
961  atctttgttg ccctctcctg ctttggctcc atgaacggtg gtgtgtttgc tgtctccagg
1021 ttattctatg ttgcgtctcg agagggtcac cttccagaaa tcctctccat gattcatgtc
1081 cgcaagcaca ctcctctacc agctgttatt gttttgcacc ctttgacaat gataatgctc
1141 ttctctggag acctcgacag tcttttgaat ttcctcagtt ttgccaggtg gctttttatt
1201 gggctggcag ttgctgggct gatttatctt cgatacaaat gcccagatat gcatcgtcct
1261 ttcaaggtgc cactgttcat cccagctttg ttttccttca catgcctctt catggttgcc
1321 ctttccctct attcggaccc atttagtaca gggattggct tcgtcatcac tctgactgga
1381 gtccctgcgt attatctctt tattatatgg gacaagaaac ccaggtggtt tagaataatg
1441 tcagagaaaa taaccagaac attacaaata atactggaag ttgtaccaga agaagataag
1501 ttatgaacta atggacttga gatcttggca atctgcccaa ggggagacac aaaataggga
1561 tttttacttc attttctgaa agtctagaga attacaactt tggtgataaa caaaaggagt
1621 cagttatttt tattcatata ttttagcata ttcgaactaa tttctaagaa atttagttat
1681 aactctatgt agttatagaa agtgaatatg cagttattct atgagtcgca caattcttga
1741 gtctctgata cctacctatt ggggttagga gaaaagacta gacaattact atgtggtcat
1801 tctctacaac atatgttagc acggcaaaga accttcaaat tgaagactga gatttttctg
1861 tatatatggg ttttgtaaag atggttttac acactacaga tgtctatact gtgaaaagtg
1921 ttttcaattc tgaaaaaaag catacatcat gattatggca aagaggagag aaagaaattt
1981 attttacatt gacattgcat tgcttccccc tagataccaa tttagataac aaacactcat
2041 gctttaatgg attataccca gagcactttg aacaaaggtc agtggggatt gttgaataca
2101 ttaaagaaga gtttctaggg gctactgttt atgagacaca tccaggagtt atgtttaagt
2161 aaaaatcctt gagaatttat tatgtcagat gtttttttcat tcattatcag gaagttttag
2221 ttatctgtca ttttttttttt tcacatcagt ttgatcagga aagtgtataa cacatcttag
2281 agcaagagtt agtttggtat taaatcctca ttagaacaac cacctgtttc actaataact
2341 tacccctgat gagtctatct aaacatatgc attttaagcc ttcaaattac attatcaaca
2401 tgagagaaat aaccaacaaa gaagatgttc aaaataatag tcccatatct gtaatcatat
2461 ctacatgcaa tgttagtaat tctgaagttt tttaaattta tggctatttt tacacgatga
2521 tgaattttga cagtttgtgc attttcttta tacattttat attcttctgt taaaatatct
2581 cttcagatga aactgtccag attaattagg aaaaggcata tattaacata aaaattgcaa
2641 aagaaatgtc gctgtaaata agatttacaa ctgatgtttc tagaaaattt ccacttctat
2701 atctaggctt tgtcagtaat ttccacacct taattatcat tcaacttgca aaagagacaa
2761 ctgataagaa gaaaattgaa atgagaatct gtggataagt gtttgtgttc agaagatgtt
2821 gttttgccag tattagaaaa tactgtgagc cgggcatggt ggcttacatc tgtaatccca
2881 gcactttggg aggctgaggg ggtggatcac ctgaggtcgg gagttctaga ccagcctgac
2941 caacatggag aaaccccatc tctactaaaa atacaaaatt agctgggcat ggtggcacat
3001 gctggtaatc tcagctattg aggaggctga ggcaggagaa ttgcttgaac ccgggaggcg
3061 gaggttgcag tgagccaaga ttgcaccact gtactccagc ctgggtgaca aagtcagact
3121 ccatctccaa aaaaaaaaaa aaaa
```

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Figure 6: Nucleic acid sequence of GCLM: NT_028050, position 9380597-9403950. (SEQ ID No: 18)

ATCAAAATGTGTTTAAGTAGTGGTGGTGCTTGTGGGTAGCTCTTTCACTATAATAAAAAA
TCAATATCCAAAAAAAAAAAAAAAAAGCAGCGCAAGCTCGTTCAATGAACTCTTACCATC
ATTCATTCAGCCAACAAATATTTACTCAACATCAGGCTCAATTTCTAACTTCCTAGAAAG
ATCTTTTTTCCCATCCCTCCCCTAATTCTTACCATTTTACCAACTGGTTCATCTCTCTTT
TCAATAGCTATATTGTCCCCGCTTATAATGAGAATCTCATTTTGCCTTTAATAATCTGAT
TCACCTCAACGAATGTGAAAGATTGTTGAGGAAAGCTCAATACATGTTCAATTTGATGTT
TATACCGAGTCCACCACCACACGTGAAATTTAATAGGGGTAAATAATCTCGACCACCTCT
AAAGGGGTGGGTGATAAAAGCTTTCTGTGATCTCACCGGCTCAAGTGTCCTCTTTAATCT
GAATTCATCTGGAGAATAACTGCCCTATGATGTTCTTATAAAATTACTTGTTTCCTGTGC
TTAGAACTTGTCTCTGGGTAGAGTGTACGCGTCTCAAGGGCAAAGACTCAGTCTTGTTCG
TTGACTTCACACACTGCCAGCAAATAATGTGAATCAATAGACCTTTAACGGATGAAGAAA
AATTAGCAGTTTGGGAGAAGGTCCTTGAAGGTAGCAAAGCGAAAAGAAGAAGGGGGCGCT
TGCGCATAAACAGCTGCTTCTGAGAACGAAAACTACGTAGCATTTCCGAGTCCCGGTGGC
CGCTCAGGCTGCCCTTTAAAGAGACGTGTAGGAAGCCCACCCTGGGGCGGCCGTGGGCGG
AGCCGCGACCTGAACGCCGGGAGACCTCACCAGGCGGAGGCGGTGTCTACCTCACCAGGC
GGAGGCGGTGTCTGCCTCGCGCTGTCCTCTGACCGCCAGGGGGAGCCCTGCCGCGCGCTG
CGCTCCGGGCCGCGCCGCCACGCTCTCTCGACCCGCGCGCCCGCCGCGCACCACCCGTCG
CCACGCCCGCCGCAGGCCAAGGGCCAGTCACTTGCGGGCCGGCGTCCCGCAGCCCATTCG
CGCCCCGCCCCTGCCCCGCCGCGGGATGAGTAACGGTTACGAAGCACTTTCTCGGCTACG
ATTTCTGCTTAGTCATTGTCTTCCAGGAAACAGCTCCCTCAGTTTGGAATCAGCTCTCCC
GCTGCGGCCGCAGTAGCCGGAGCCGGAGCCGCAGCCACCGGTGCCTTCCTTTCCCGCCGC
CGCCCAGCCGCCGTCCGGCCTCCCTCGGGCCCGAGCGCAGACCAGGCTCCAGCCGCGCGG
CGCCGGCAGCCTCGCGCTCCCTCTCGGGTCTCTCTCGGGCCTCGGGCACCGCGTCCTGTG
GGGCGGCCGCCTGCCTGCCCGCCCGCCCGCAGCCCCTTCGCTGCGCGGCCCCTGGGCGGC
CGCTGCCATGGGCACCGACAGCCGCGCGGCCAAGGCGCTCCTGGCGCGGGCCCGCACCCT
GCACCTGCAGACGGGGAACCTGCTGAACTGGGGCCGCCTGCGGAAGAAGTGCCCGTCCAC
GCACAGCGAGGAGGTGAGCGTGGCGACACTCGCCGCGGGGCTCCCGGGGCAGGCCTCGGG
CGGGGCCGGGCGGTTCCGGCAAGGGAGAAGCGCCCGCGGGCGAGGGAGGGTGGCAGGGCC
TCGCGCGCACCTGGGCTCCGCCCGCGGTCAGATGCTGAGGCCAGTGTCGACGCGACCTTG
GGTCCAAACCCGCTGCCGAGGGCAACGCGTCTAAAAAACTTAGCCGGTGCAGCTGCGCAC
TGAGTGACACCTCTCTCGGTGCTTAAGGCTGGTAGCAAAACTCTCAAACATCCTGGGTCC
CTCTTCCTGGCACGGAGGTCACAGAGGGCCAGGACGTCGCTCCGTCTCTCTCCACATCTC
TCGCTTCCTTCCCCCACCCTGTCCAGGTAAAGGAATATTTTCGGAGATTATCCTTTGGTG
CATTCAGATGAAGTAGTATTCATAGTACACCTAACTTTTAGAATGTTGACATTAGACTCT
CTATTGCAGTGAGGCAAATGAGTAAGCACTCAATTTTGGCTTTGGAATACCCTAAATACC
CTGACTTTAGTCATTACACATTTTATGCACTTATCTGTGCGTCTATGTATGCTTTATCAG
TACACATTCTATGCATGTAACAATATCATTGTACATTCTATGCATGTAACAGAATATCAC
ATGTGCCCCATAAATATGTACAAATATAATCTATCAATTCAAAAATTAAAGTTTTGTAAA
AACTGGAAAATAAAAAGACTAGTCACTAGTTGGAGGTGACAGAGATTAATCTGGAATTAC
AAACTTGTTACCTATTTGTTGGCCATTTCTGAGCGGATAGTCATCCACTGCACATTGTGC
ATATTGGTGGTATGGGACAATTTTAGTATTTAAAAAATAACAAAATCTTTAGATTTAGGA
GCTATATGACTTTGGAAAATTACTTTAAAGTTGGATAATAACACCTTCCTCATCAGGTTG
TTGTGAGAATTAAGAGGTAATATATGAAAACGCTCACCATGCAGGCATCTATCTCCCTGT
CATCTGGTTCCATCAGAAAGATAAATCTTAATTAAGAGAAAAACCTTCCTAAACTATGTG
TGTTTAGAAAAACCTTCCTAAATCAGCTGTGTTCCTAAGTGGTTTCTGCTCTCTTCTATG
AGATGTTGGTAACAGACCATGCAGCAGCACACGGCATCCCTCTGAGTTAAGTGCTGGACC
TGTGCCCAGGCCTGTTGTTGGGGTCAGTGCCCATCAAGAGATGAGAACTCTTGCTTGTAA
CTTTAGTAGGAATCTGAGTCTGTACCATATTCTGTGTTCACGTTCCAGCTCAGTGTGTAT
GTTTTGTTTTATTTAAACCACCTACTTTGGCTGTTTCTCCCACAGATAAATATTTCTGTA
TTCGGTACATAGACTCTTAATTTCTTCCAGTACTGTTGGTGGTAGTTCAATACAGAATTT

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TGCACGTATATTGATATTATTGGGTGAAATTTTACCTATCTCACAATAGCATACTCTAAA
GTAGTGACTCAAAAGAGTTTCTGACTGCAAACACAGTAAGAAGTACATTTTACTTTGCAA
TCCAGTTAATAGTTGTATAATCAGTATATCTGAAACAGGTTTCACAAAAAGATATTAGCC
CTTATACCGTATATTCTGATTTTTTCTTTTATTTTAATTTTTAAAATGTTGATTTCTTGA
TGCTCAGAGTCACACACCACAGTTTGTAAAACATTGTTCAAAGGACTAATTCTGGTTTCT
AGTGTTTTATTTAGGGTGCTTCATAACAGTAGGATAAAACTAAAGAAACTAGAAAACATT
TCAGGAAAACTTGAAGGAATGGCATCATACTGTAGGGAAACTATGACTGCTTGGTAAGAG
CAAAAGGGGAGGCACATTTTGTTTCTATGTAAAAGAACTTTGTAACACCCAGAGCTCCAA
ATTGGGATGTACTACTTGGAACAGTTCCGCTTCACTGAAGAAATTAAGTAAACTGAACAA
ATCACTTATTTTTGAGAAAATGTACGTGTTGGGTCAAGAGTTCAGTTAAATTTCTTACAA
GGTCTCTTCTAGTTCTAATTTTTTAAAAAATGTTATGACCTCTGCCCAGATTTTTTGTCT
CACTGGAATTTTATGAAATCAAATAGTTTGTAAGTGGACCATTATAGGACTGTTTTGCCC
AGTTCTTTGTTGTAAGGGTGTTTGACCGGTTGAATCATGGTATTTAAAAAATTCTTATAC
AACTCCAGATCTAATGGTAGGCTAAGTTGTGGTGATGCTTATACTCAGTGATATTGGGTG
TGTATTATAAGAATGAAGAGAGCGGAGAACAAACATAAACATTAATGTTAATGACAAACA
TTAACCCAAGTACAAGGTTAATGTTTAGTCAATATAGCAAACATGTAATTTACAAGATTA
AAAATAATTAGGCTTGTGATAAAGTCAATGAATTTCCTACGTAATTGTAACATTAGACTG
TTTTATTATTTGTCCTGACATTTTGCAGAATCCAAGATTAATTAAAGAAATGGTTTCAAG
AAGAGGGTGAATACTATAAAAATAGACTTACCTTCCTGAATTGAGGAATTCATCAGGAAA
GCCTCAAGTGTGCAAATGAGCCATCCTTCCAGAGGGAAATTTCTTAGAATTATCCCACGA
TTTGAGCCAAAGCACTTCCGATAGAATTTTTAACCTCTAGTTGGTTCTGCTCCTTCCATT
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TGTAAGATATGGATATACACACACACATACAGATATAAGATCTAGAGATATATAGAGATT
CAAGATATGGATGAAGATATATATATATATATGAAGATATATACTCATATACACCAAAAA
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GCTCTTCAGGAAAGCATTCCTGACATTCAAGCGCACGAGTGGGTGCCGCTGTGGCTACTG
CGGTATTCGGTCATTGTGAAAAGTAGAGGAATTATCAAATCAAAAGGCTACATTTTACAA
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ATGGTTCCATATTCAAAATAAATATTATAGACCCTTTTCCTAAGTAGGATTTTGTGGTTT
ACTGATTGGGTAATTTGATCATTAAAATTATGTGAAATCTGCCCGGGCACACCTCATGCC
TGTAATCCCAGCA

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Figure 7: Nucleic acid sequence of GSS: NT_028392, position 1352038-1381802 (SEQ ID No: 19)

CACAGCAGCCTCCGTCTCCGGGGCTCAAGAATTCTCACGCCGCAGCCTCCCGAGTAGCTG
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CCTCTCAAAGTGCTGGGATTACAGGTCTGAGCCACTGCACCCAGCCAGCCTTTGCTGCTT
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Figure 8

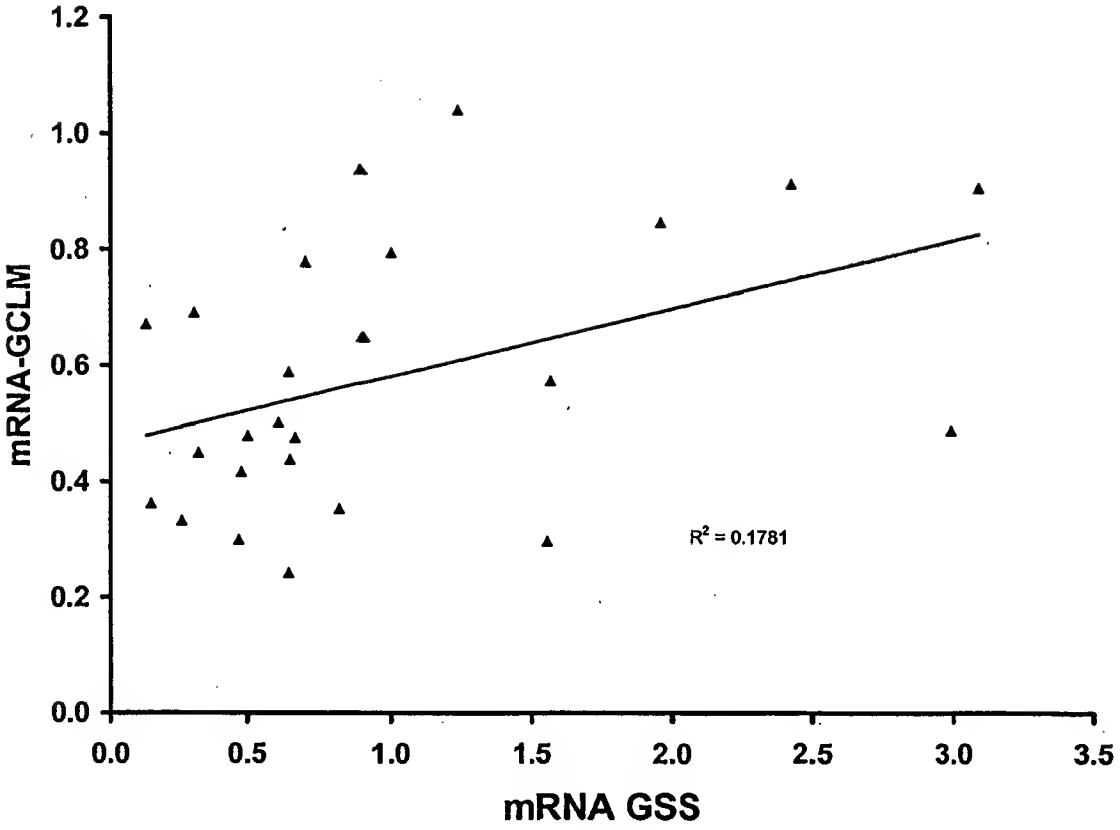

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Figure 9

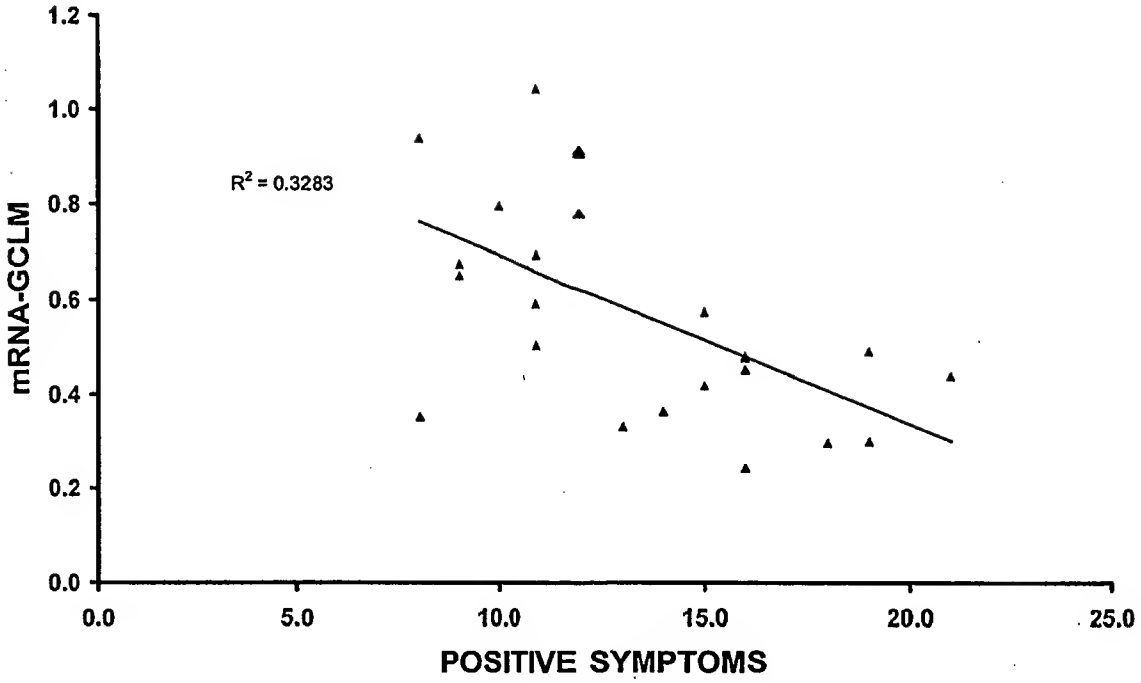

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Figure 10

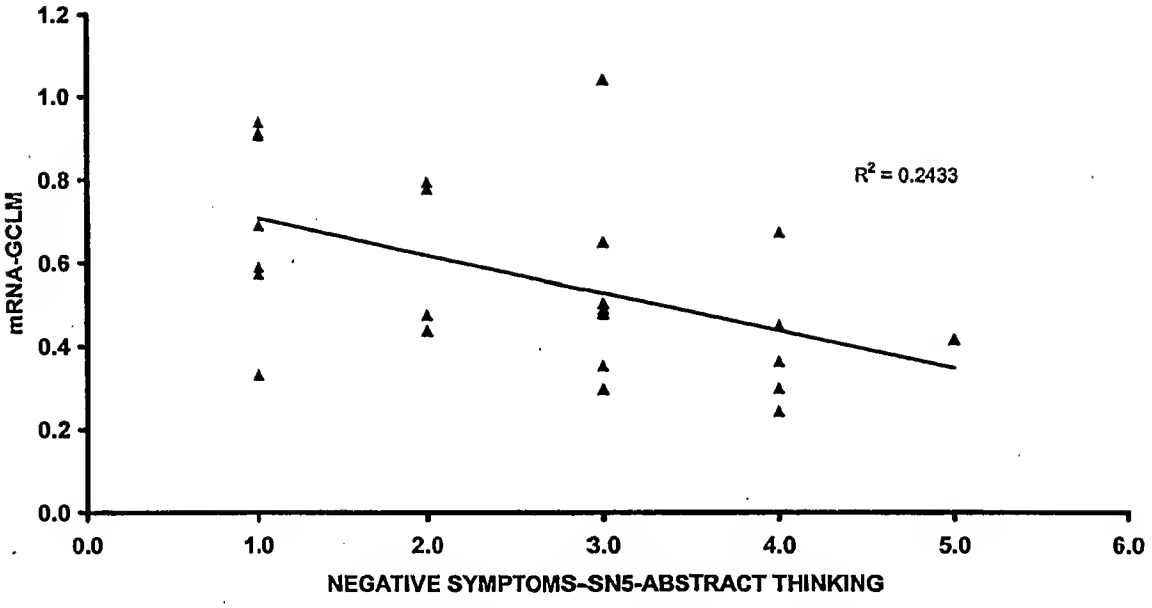

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Figure 11

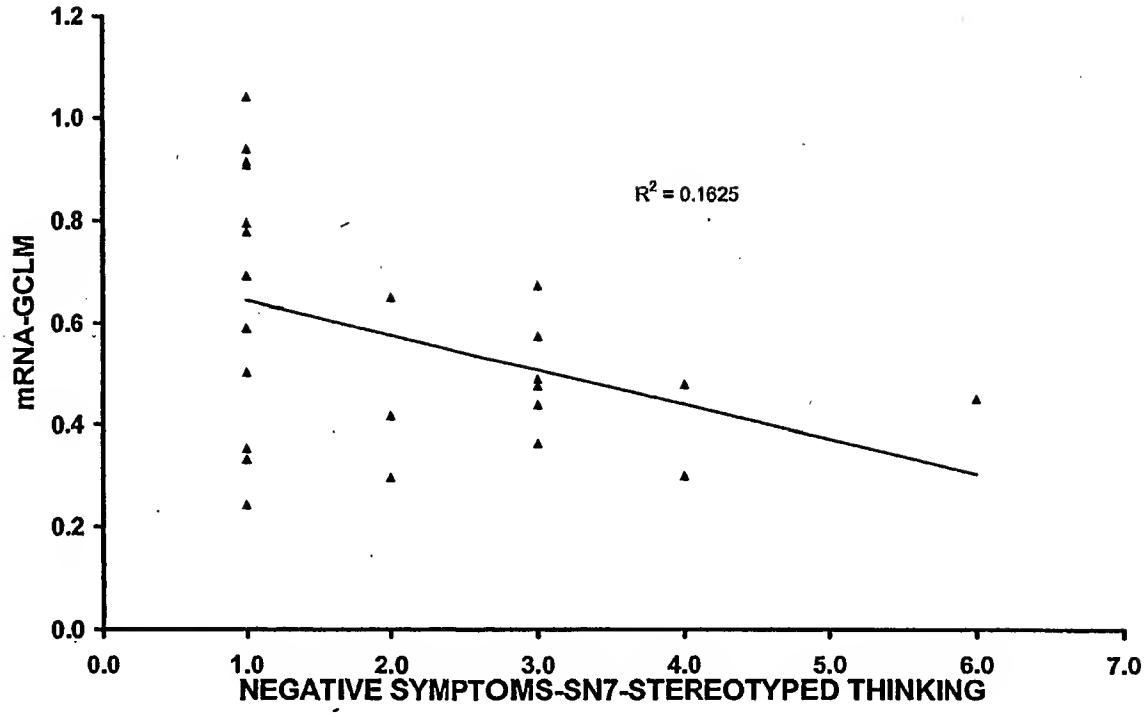

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Figure 12

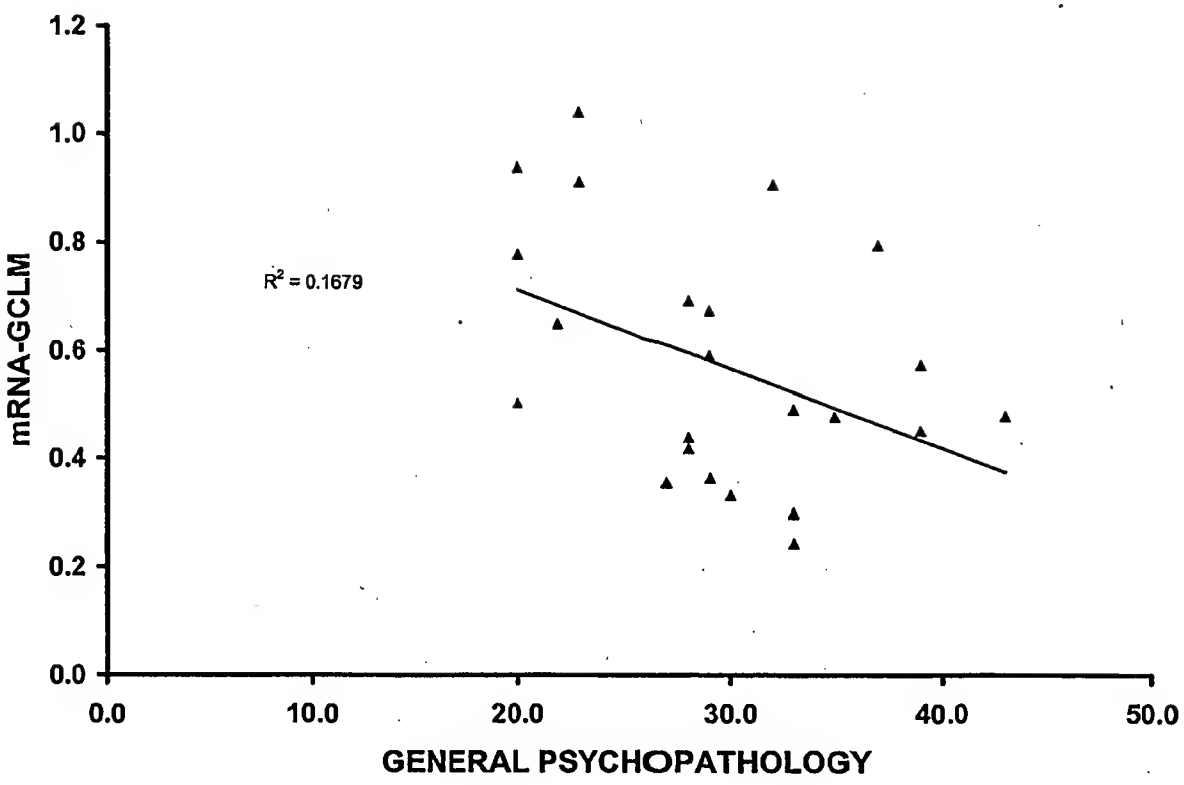

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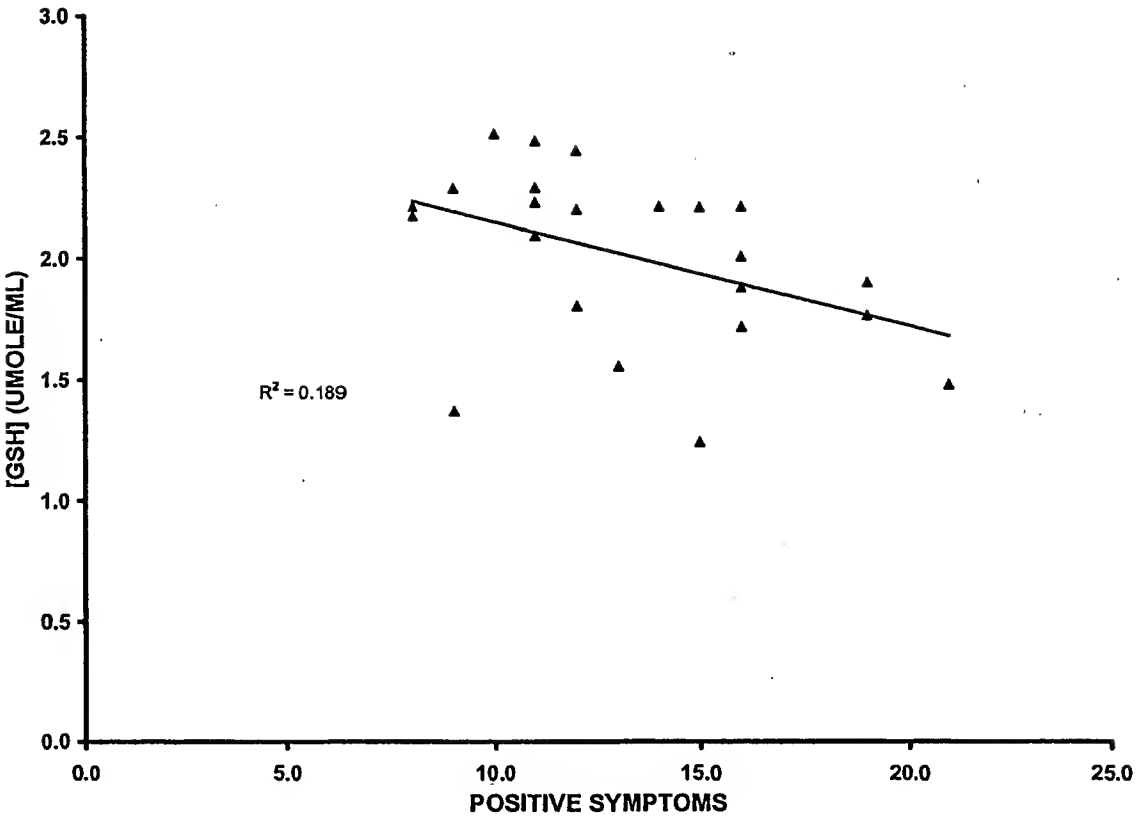
Figure 13



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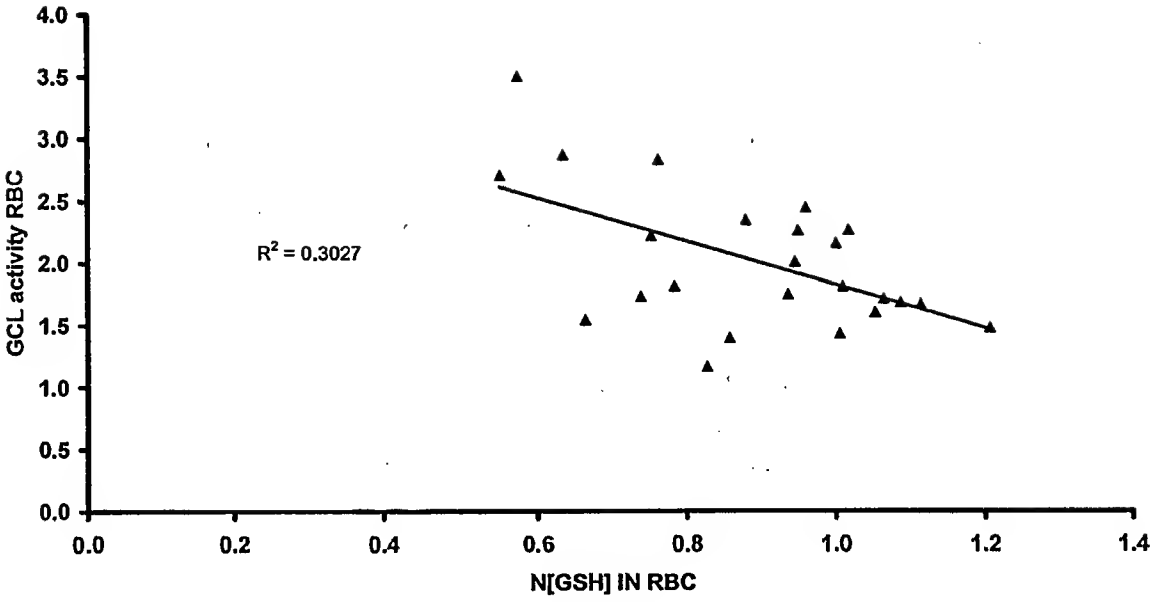

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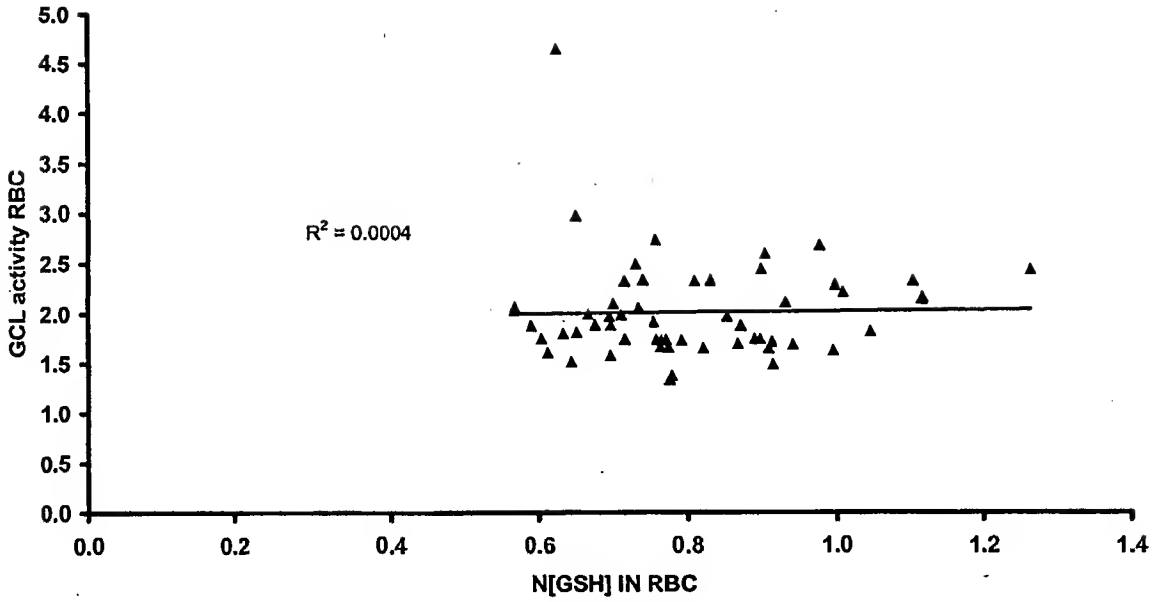

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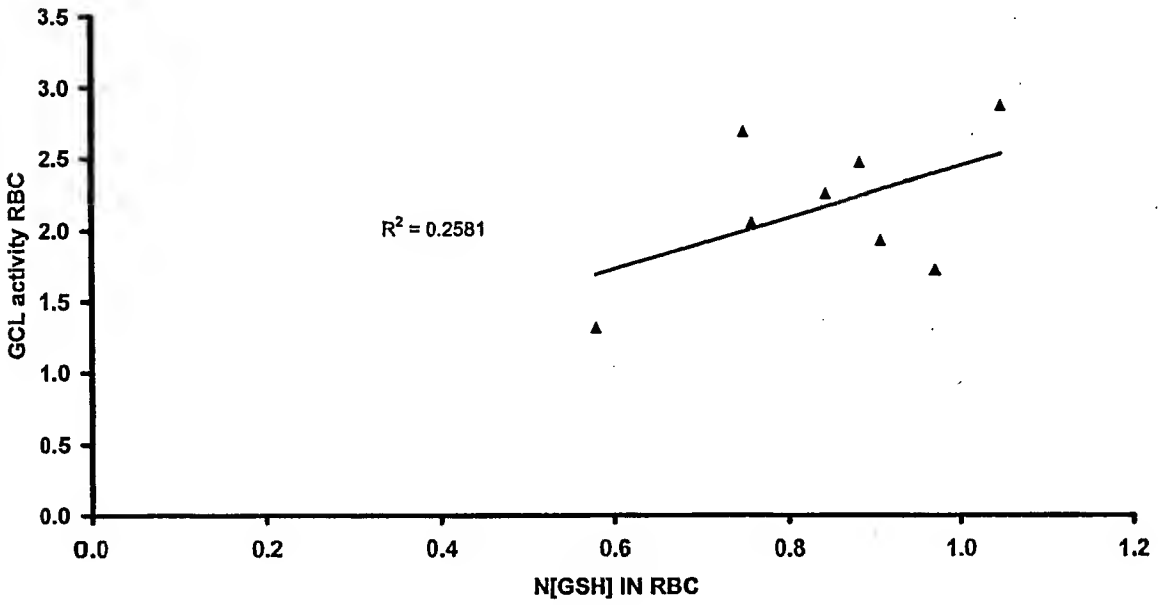

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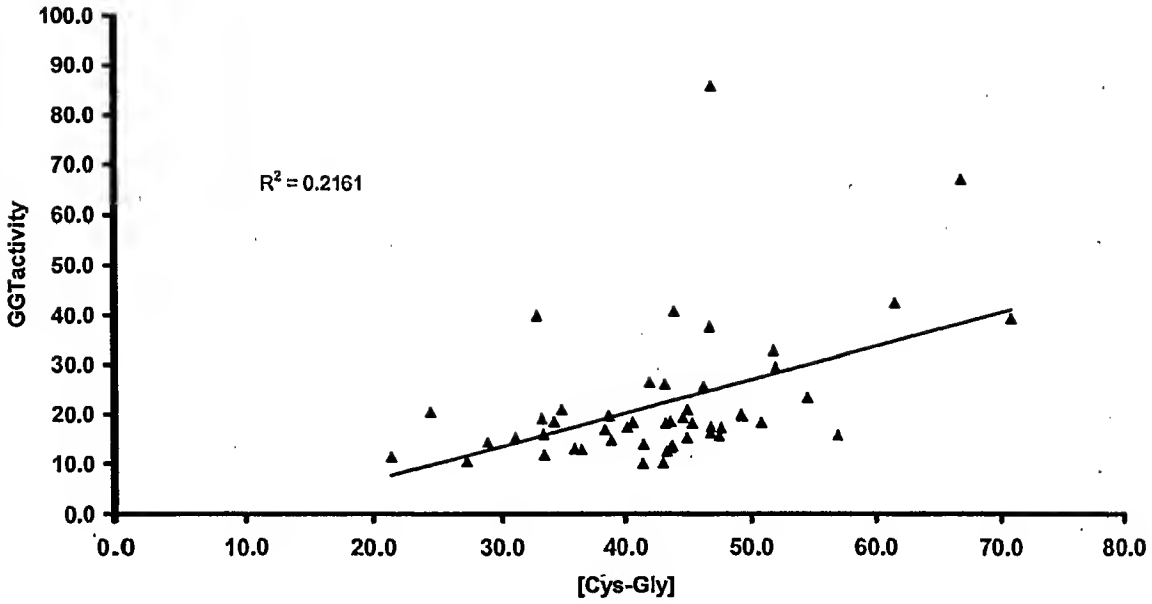

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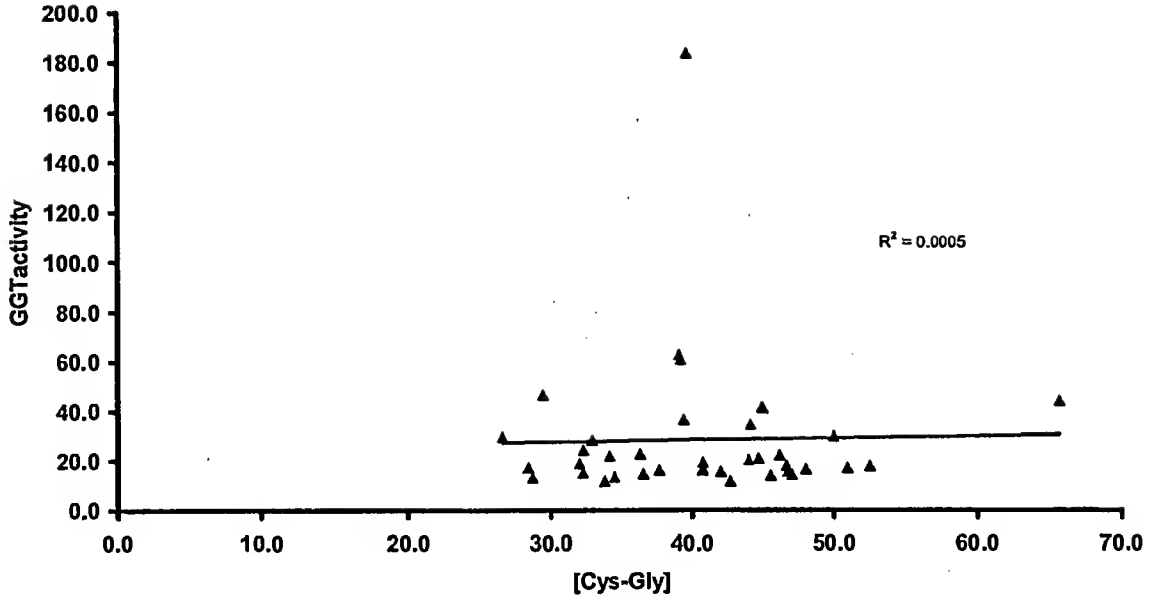

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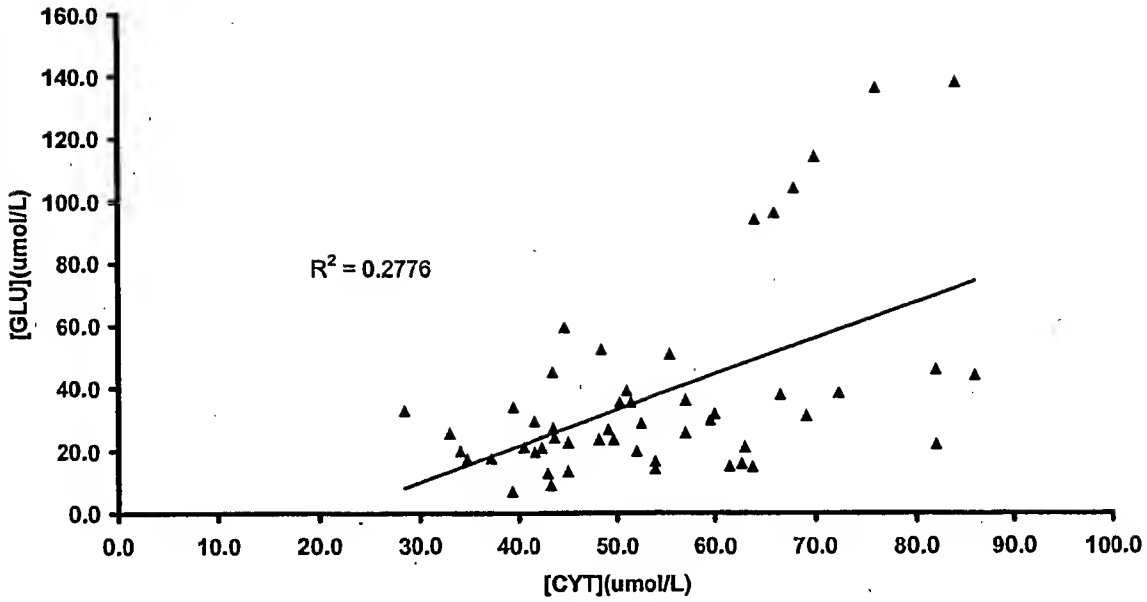

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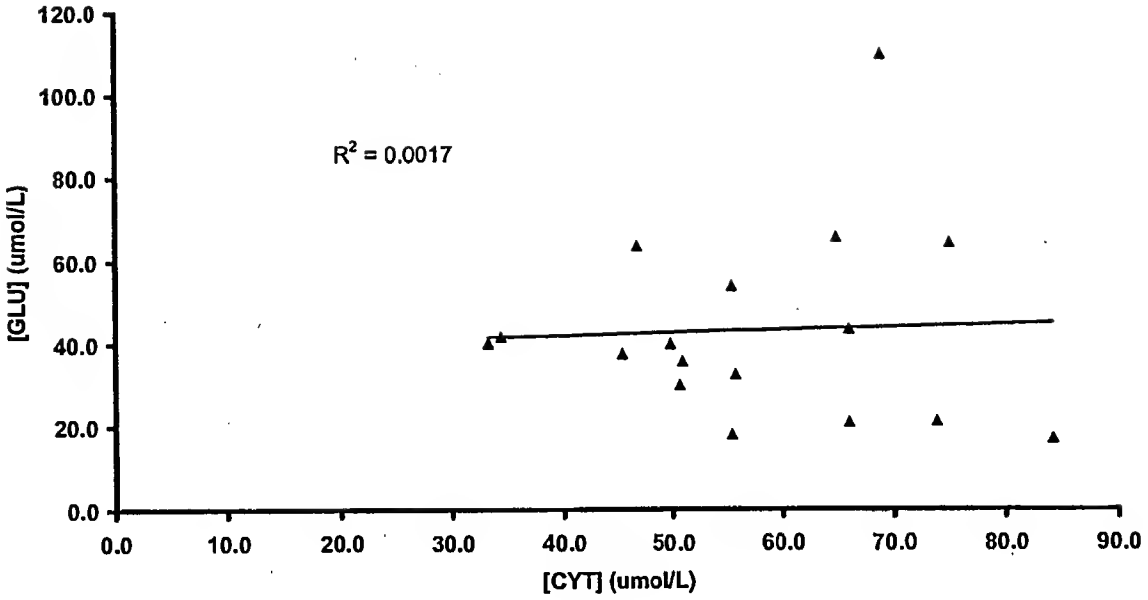
Figure 20



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